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Application No. 10/663,768

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

Applicant : Uri Arnin et al.

Appl. No. : 10/663,768

File : September 17, 2003

Title : Mechanically Attached Elastomeric Cover For Prosthesis

Group Art Unit: 3738

Examiner : Suba Ganesan

Docket No.: 1348VAS-US

Honorable Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Entry and consideration of the enclosed Form 1449A - Information Disclosure Statement by Applicant is respectfully requested in accordance with 37 C.F.R. §1.97(c and e).

A copy of each document or other information listed on the enclosed Information Disclosure Statement, where appropriate, is provided in accordance with 37 C.F.R. §1.98(a)(2).

In accordance with 37 C.F.R. §1.97(e)(2), no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

This submission does not represent that a search has been made or that information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b), or that information cited is, or is considered to be "prior art" within the meaning of 35 U.S.C. §§ 102 and 103, or that information cited has been thoroughly reviewed or that any

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relevance of any portion of a reference is intended. Applicant reserves the right to establish that any information cited is not "prior art," and that the date of publication indicated for a cited item is in fact different than that which is indicated.

Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the enclosed Information Disclosure Statement, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,



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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/663,768
		Filing Date	September 17, 2003
		First Named Inventor	Uri Amin
		Art Unit	3738
		Examiner Name	Suba Ganesan
		Attorney Docket Number	1348VAS-US
Sheet	1	of	1

**U. S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T#
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		EP 1166724	01-02-2002	Sulzer Orthopedics	col. 7, l 14-22; Fig 1	
		EP 0853928	07-22-1998	MAN Ceramics	abstract	
		FR 2105998	04-28-1972	Gulf Oil	p 10, lines 33-38	
		GB 1573608	08-28-1980	Howse	whole document	
		WO 01/24739	04-12-2001	Exactech	Fig 5	
		FR 2765100	12-31-1998	Implant Reduction	abstract	

Examiner Signature		Date Considered	
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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**Abstract of EP1166724**

Interim prosthesis section comprises a spherical head (2), an associated artificial or natural socket, and a thin, longitudinal support member (3) fixed to the head. The spherical head is made of a bone cement. The support member consists of metal or plastic.

**Abstract of EP0853928**

The implant is eg. for a hip joint. It is composed of two components (11,12) held together by a plastics clamping ring (15,16), in a force fit. The clamping ring is inhomogeneous in the peripheral and-or axial direction. It has hollow zones formed by drilling into the material or alternatively it is solid with different stiffness zones.

Abstract for FR2105998 is the abstract of corresponding patent US3707006. Prosthetic devices for repair of replacement of bone structure in a living body, and methods of orthopedic repair which employ such devices. The orthopedic devices comprise a substrate and a pyrolytic carbon coating on the substrate, which pyrolytic carbon coating is compatible with living tissue and which has a density of at least about 1.5 grams per cubic centimeter. Examples of suitable substrates are those which have a modulus of elasticity approximating that of natural bone such as polycrystalline carbon, and fiber aggregates such as carbon fiber aggregates and refractory wire metal screens. The pyrolytic carbon coating of the orthopedic devices may be polished to provide an effective wear surface, while the surface roughness of the as-deposited coating may be employed to achieve a bond with natural bone tissue. The pyrolytic carbon coating is preferably isotropic and may be doped with a suitable carbide-forming element, such as silicon, to provide additional structural strength and wear resistance.

**Abstract of GB1573608**

A prosthetic hip cup assembly comprising an inner cup of resilient material capable of being snapped on to a partspherical prosthetic femoral head, and a substantially rigid outer cup having a blind bore for receiving the inner cup to inhibit the inner cup from stretching over the femoral head and separating therefrom, an annular recess being provided adjacent the open end of the bore on the inside of the outer cup, and a corresponding annular protuberance being provided on the outer surface of the inner cup, the blind end of the bore in the outer cup being part-spherical and concentric with a part-spherical outer surface of the outer cup, and the inner cup having a corresponding part-spherical outer end face which is concentric with a part-spherical recess for accommodating the part-spherical femoral head.

**Abstract of WO0124739**

A modular acetabular bearing assembly which minimizes or eliminates the production of wear debris resulting from relative motion at the interface between the acetabular shell and bearing insert portions of the modular acetabular bearing assembly. The modular acetabular bearing assembly includes an acetabular shell and composite bearing insert. The composite bearing insert includes an endoskeleton and a polymer layer which is preferably molded into and locked within the endoskeleton. The endoskeleton is configured to be locked within the acetabular shell. As such, the modular acetabular bearing assembly, and its

method of manufacture, eliminate all contact between any polymer surface on the composite bearing insert and any metal surface on the acetabular shell. The modularity of the assembly facilitates the interchangeability of various composite bearing inserts within an acetabular shell which is fixed to the acetabulum of a patient. This provides for various advantages, including the ability to use a central screw to fix the acetabular shell to a patient.

**Abstract of FR2765100**

The prosthesis consists of an acetabular cup (1) with a polymer liner (7) having a hemispherical cavity (9) to receive a rotary spherical head (11) connected to a bone diaphysis implant (10). The head is held in place in the cup by a fixed retaining ring (13) with a truncated conical recess (17) having its larger end facing towards the cavity. The retaining ring recess receives a deformable split locking ring (20) with an outer surface of matching shape. The height (h) of the locking ring is smaller than that (H) of the recess, enabling it to occupy two different positions - one next to the cavity, in which the ring is expanded to allow the head to be inserted, and the other at the smaller end of the recess, where the ring is contracted and prevents the head from being extracted.